

# EUROPEAN PATENT OFFICE

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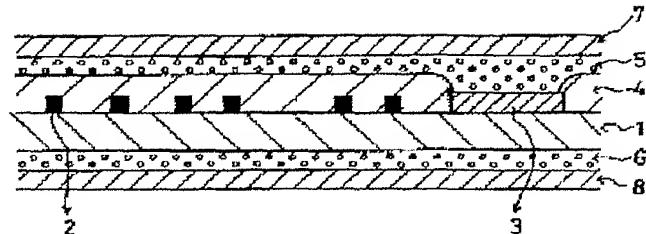
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INVENTOR : KOINUMA YUICHI;

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TITLE : PRINTED WIRING BOARD HAVING  
MAGNETIC FIELD AND RADIO WAVE  
SHIELDING LAYER AND ITS  
MANUFACTURE



ABSTRACT : PURPOSE: To prevent noise like crosstalk by blocking magnetic field and radio waves generated from a circuit on a printed wiring board, with a shielding layer.

CONSTITUTION: On the surface of a single-sided board on which surface a signal circuit 2 is formed, a magnetic field and radio wave shielding layer 5 is formed via an insulating layer 4, and connected with an earth circuit 3. On the rear, a magnetic field and radio wave shielding layer 6 is directly formed. Overcoat layers are formed on the magnetic field and radio wave shielding layers 5, 6. The magnetic field and radio wave shielding layer contains high permeability magnetic powder and high conductivity copper or silver powder with a suitable mixing ratio, and has a conductivity. As to the magnetic powder, the initial permeability  $\mu$  is  $10^2$  or larger and the coercive force  $H_c$  [Oe] is 1 or smaller.

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